SEQUENCE LISTING

<110> Higeta Shoyu Co., Ltd.

<120> Novel Brevibacillus chosinensis and Producing Method of Protein by Using Thereof as Host

<130> 6826

<141> 2004-11-08

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<212> DNA

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Gln Arg Phe Ile Asn Arg Gly Tyr Glu Ala Asp Asp Leu Phe Gln Ile
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Gly Cys Ile Gly Leu Leu Lys Ala Val Asp Lys Phe Asp Leu Ser Tyr
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130 135 140

Ile Thr Pro Glu Glu Val Val Phe Ala Gln Glu Ala Ser Arg Ala Pro

145 150 155 160

Ser Ser Ile His Glu Thr Val Phe Glu Asn Asp Gly Asp Pro Ile Thr

165 170 175

Leu Ile Asp Gln Ile Ala Asp Glu Gly Val Asn Lys Trp Phe Glu Lys

180 185 190

Ile Ala Leu Lys Asp Ala Ile Ser Arg Leu Ser Glu Arg Glu Gln Leu

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Ile Val Tyr Leu Arg Tyr Tyr Lys Asp Gln Thr Gln Ser Glu Val Ala

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Asn Met Asp Arg Leu Val Lys Ala Leu Ile Asp Gln Gly Glu Ile Asp
50 55 60
Glu Asp Ala Asp Gln Glu Glu Ile Asn Lys Ala Val Glu Lys Phe Leu
65 70 75 80
Arg Asp Lys Lys Val Pro His Gly Ile Asp Asp Ser Ser Ser Phe Gly
85 90 95

Lys Lys Ala Ser Lys Thr Gln Leu Ser Ala Val Ser Lys Ala Ala Ser
100 105 110
Lys Val Ser Lys Leu Lys Asp Asp Lys Gln Val Arg Ala Ser Lys Arg
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Val His Thr Asp Asn Leu Val Ile Ala Leu Val Glu Phe Asn Asp Leu
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Glu His Asn Gln Val Pro Lys Gln Ser Asp Ser Leu Trp Thr Ala Asp
145 150 155 160
Phe Asp Gln Lys His Tyr Glu Glu Met Leu Phe Asp Arg Lys Gly Tyr
165 170 175
Thr Thr Pro Glu Gly Ile Ser Met Thr Thr Met Ala Lys Tyr Tyr Tyr
180 185 190
Glu Gln Ser Gly Glu Thr Trp Thr Val Asp Gly Val Val Thr Pro Trp
195 200 205
Leu Thr Ala Glu Lys Asp Lys Lys Phe Tyr Gly Gly Asn Asp Glu Asn
210 215 220
Gly Asn Asp Ala Asn Pro Arg Asp Leu Val Val Glu Thr Leu Glu Ser
225 230 235 240
Val Gly Asp Ala Ile Lys Gly His Glu Glu Glu Tyr Asp Gln Arg Asp
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Pro Tyr Asp Leu Asp Gly Asp Ser Asp Leu Met Glu Pro Asp Gly Met
260 265 270
Leu Asp Asn Leu Met Leu Val His Ser Gly Ile Gly Glu Glu Thr Gly
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Glu Asp Ala Asp Ala Ile Trp Ser His Arg Trp Thr Leu Lys Lys Pro
290 295 300
Thr Glu Ile Pro Gly Thr Ser Leu Lys Ala Tyr Asp Tyr Met Ile Gln
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Pro Glu Asp Gly Ala Pro Gly Val Phe Ala His Glu Tyr Gly His Asn
325 330 335
Leu Gly Leu Pro Asp Leu Tyr Asp Thr Thr Arg Leu Gly His Asp Ser
340 345 350
Pro Val Gly Ala Trp Ser Leu Met Ser Ser Gly Ser His Thr Gly Lys
355 360 365
Ile Phe Gln Thr Gln Pro Thr Gly Phe Asp Pro Trp Ser Lys Met Met
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385 390 395 400
Tyr Glu Asp Leu Lys Lys Arg Lys Lys Gln Ala Ser Leu Tyr Asp Gly
405 410 415
Ser Ser Leu Asp Glu Asp Gly Lys Val Ile Lys Leu Asn Met Pro Gln

420 425 430
Val Glu Lys Thr Pro Pro Val Gln Pro Lys Asp Gly Asp Tyr Ser Tyr
435 440 445
Phe Ser Asp Glu Gly Asp Asn Leu Asn Thr Lys Met Thr Ser Glu Val
450 455 460
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465 470 475 480
Arg Ala Ile Glu Thr Gly Tyr Asp Tyr Leu Tyr Val Asn Val Ile Asp
485 490 495
Val Asp Ser Gly Glu Ser Thr Thr Val Lys Glu Tyr Asp Asp Glu Thr
500 505 510
Lys Gly Trp Asp Lys Glu Glu Ile Ser Leu Asn Asp Phe Ala Gly Lys
515 520 525
Lys Ile Gln Val Glu Phe Asn Tyr Val Thr Asp Gly Gly Leu Ala Met
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545 550 555 560
Val Phe Ser Asp Asp Ala Glu Gly Asp Gln Lys Phe Asp Leu Asp Gly
565 570 575
Phe Ile His Phe Asp Gly Glu Gly Lys Met Tyr Asp Ala Tyr Tyr Leu
580 585 590
Val Glu Leu Arg Ser His Glu Gly Val Asp Glu Gly Leu Lys Tyr Phe
595 600 605
Arg Arg Asn Asp Thr Phe Phe Thr Tyr Asp Pro Gly Leu Val Ile Trp
610 615 620
Tyr Tyr Asp Gly Arg Phe Gly Lys Thr Gln Asp Asn Asn Thr Ser Asn
625 630 635 640
His Pro Gly Tyr Gly Met Leu Gly Val Val Asp Ala His Gln Glu Val
645 650 655
Arg Tyr Trp Asn Asn Asp Glu Gly Asn Glu Glu Ala Ile Ala Asp Ser
660 665 670
Arg Tyr Gln Val Asn Asp Ala Ala Phe Ser Pro Asn Lys Thr Ser Gly
675 680 685
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690 695 700
Gly Ile Thr Val Phe Lys Asp Ser Asp Asp Tyr Thr Met Pro Glu Val
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Pro Glu Ile Gly Lys Ile Leu Pro Lys Ile Gly Leu Gln Ile Lys Leu
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35 40 45

Pro Leu Tyr Arg Glu His Val Tyr His Pro Phe Leu Gln Ala Met Asp
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Lys Leu Ser Glu Ser Gly Phe Ala Gln Met Leu Arg Arg Asp Pro Gln
65 70 75 80
Lys Glu Arg Glu Ala Gly Leu Phe Cys Asp Ile Ala Gln Ala Ile Leu
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Gln Asn Gly Glu Ala Tyr Glu Arg Asp Ala Thr Asp Ala Phe Gln Glu
100 105 110
Val Val Ser Asp Leu Tyr Asp Gly Phe Leu Ser Glu Glu Asp Arg Ser
115 120 125
Gly Ile Lys Pro Pro Asp Glu Ser Leu Ile Ala Pro Leu Val Lys Trp
130 135 140
Gly Arg Pro Gln Phe Gly Pro Tyr Thr Trp Thr Ala Glu Ala Ala Ala
145 150 155 160
His Phe Gly Ile Lys Thr Gly Ile Val Asn Leu Pro Pro Ala Asn Ala
165 170 175
Arg Leu Gly Leu Leu Ala Trp Ser Ala Leu Gly His Glu Thr Ala Gly
180 185 190
His Asp Ile Leu His Ala Asp Thr Gly Leu Leu Gly Glu Leu Gln Gln
195 200 205
Thr Val Tyr Asp Ala Leu Phe Asp Glu Leu His Asn Arg Thr Leu Ala
210 215 220
Asp Tyr Trp Ser Leu Arg Ile Asp Glu Thr Ala Ser Asp Val Leu Gly
225 230 235 240
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245 250 255
Arg Gly Leu Asn Lys Ala Tyr Thr Gly Gln Ala Thr Leu Arg Asn Thr
260 265 270
Gly Pro Gln Asn Asp Pro His Pro Ala Asp Ile Leu Arg Gly Tyr Leu
275 280 285
Ala Ala Glu Thr Ala Arg Leu Leu His Phe Asp Asn Ala Ser Asp Trp
290 295 300
Ala Gln Ala Leu Leu Glu Glu Thr Arg Arg Asp Leu Lys Gly Ile Thr
305 310 315 320
Ile Gly Arg Ala Ser Leu Asp Ala Glu Thr Ala Gln Lys Ser Ala Ala
325 330 335
Ile Val Ala Arg Thr Ile Met Glu Ala Arg Leu Leu Ser Leu Glu Gly
340 345 350
His Ala Leu Gly Gln Ile Gln Asn Trp His Asn Glu Asp Glu Arg Ile
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Val Gln Glu Ile Arg Ser His Phe Thr Gly Ser Leu Thr Val Gln Asp

370 375 380

Gly Ile Val Ser Gly Met Tyr Ala Ala His Val Val Ala Ala Ala Val

385 390 395 400

Gln Ala Ala Val Ser Gly Glu Met Asp Thr Ser Ala Ala Phe Thr Gly

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Met Lys Thr Leu Leu Lys Ser Met His Asp Ala Asn Pro Ser Trp Gly

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